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ABSTRACT

Women and mathematics have been thought of as two totally separate subjects for decades. In July, 1994 a group of mathematicians from around the country gathered in Berkeley, CA for three days to discuss ways to increase the representation of women in Ph.D. programs in the mathematical sciences. The primary goal of this conference was to broaden the impact of the Mills College Summer Mathematics Institute (SMI), a summer program designed to encourage and prepare talented undergraduate women to attend graduate school in the mathematical sciences. This book presents a collection of speeches from the conference, examples of math courses from the SMI, descriptions of successful summer math programs, and a survey of undergraduate math majors. Articles contained in this report are as follows: (1) "Women in Mathematics: Scaling the Heights and Beyond" (Lenore Blum); (2) "Excellence in Mathematics" (Deborah Tepper Haimo); (3) "Preparing Undergraduate Women for Graduate School and Beyond" (Carol Wood); (4) "A View of Mathematics from an Undergraduate Perspective" (Ani Adhikari and Deborah Nolan with Lubna Chunawala, Angela Heising, and Iris Woon); (5) "Probability and Stochastic Processes" (Ani Adhikari and Deborah Nolan); (6) "Hyperplane Arrangements" (Helene Barcelo); (7) "Algebra Seminar Taught by a Number Theorist" (Antonia Bluher); (8) "A Seminar on Linear Optimization" (Lynne M. Butler); (9) "What are Numbers?" (Svetlana Katok); (10) "Algebraic Coding Theory" (Vera Pless); (11) "Quadratic Reciprocity and Continued Fractions" (Lynne Walling); (12) "Encouraging Women in Mathematics: The Spelman-Bryn Mawr Mathematics Programs" (Sylvia T. Bozeman and Rhonda J. Hughes); (13) "The University of Michigan REU Program in Mathematics" (Daniel M. Burns, Jr. and Donald J. Lewis); (14) "The Mills College Summer Mathematics Institute" (Ani Adhikari, Steven Givant and Deborah Nolan); (15) "Summer Program for Women in Mathematics" (Murli M. Gupta and Daniel H. Ullman); (16) "Carleton and St. Olaf Colleges' Summer Mathematics Program" (Deanna Haunsperger and Stephen Kennedy); (17) "The Mount Holyoke Summer Research Institute" (Margaret Robinson); and (18) "The Director's Summer Program at the National Security Agency-Cryptologic Mathematics for Exceptional Undergraduate Mathematicians" (Victoria L. Yates). (ASK)